

Mehak Hussain

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Education

Illinois Institute of Technology

*Masters in Information Technology and Management
with Specialization in Data Science & Applied AI*

Chicago, IL

Expected December 2026

Lakshmi Narain College of Technology and Science

Bachelor of Technology in Electronics and Communication Engineering

Bhopal, M.P

June 2024

Professional Experience

BakeMeMoree, Bhopal M.P.

Founder and Baker

January 2020- June 2024

- Successfully conceptualized, planned, and launched a bakery from the ground up, including securing funding, selecting a location, and designing the brand identity
- Implemented marketing strategies including social media campaigns, local promotions, and partnerships
- Organized and managed 2 baking exhibitions enhancing the bakery's visibility and community presence

Projects

Readiculous – Hybrid Book Recommendation System

January 2025 - May 2025

- Developed a mobile-based hybrid recommendation system using Flutter for Android and iOS, integrating both content-based and collaborative filtering approaches.
- Utilized GoodReads 100k dataset for personalized book suggestions and library acquisition optimization.
- Built and optimized multiple ML models (XGBoost, KMeans, KNN, SVD, Logistic Regression) achieving up to 97.74% accuracy in rating prediction.
- Designed backend using Node.js, Flask, and MySQL, with advanced feature engineering and data preprocessing in Python.
- Created an interactive, user-friendly interface in Flutter and designed UI/UX prototypes in Figma.

Uniquet App – University Finder Application

November 2024-December 2024

- Developed a cross-platform mobile app using Flutter and MySQL to help students find U.S. universities based on GRE/TOEFL scores, tuition fees, and location.
- Designed and implemented a MySQL relational database with CRUD operations for managing university and student data, including features for saving favorites and managing profiles.
- Used Node.js as a backend for connecting the database to the flutter application.

AI Summarizer

July 2023 – December 2023

- Led a team of 4 to design and develop an AI-powered text summarization tool, improving summarization efficiency by 35% based on post-launch feedback.
- Implemented NLP algorithms to extract and condense key points from complex texts, enhancing clarity and relevance for end-users.
- Conducted iterative testing and refinement to optimize output quality and maintain contextual accuracy

Leadership Experience

Lakshmi Narain College of Technology and Science (April 2022 – May 2022)

Team Leader

- Led a team of 10 to organize and execute a college fashion show, coordinating design, choreography, and logistics, which resulted in a 20% increase in event attendance compared to previous years
- Developed and implemented marketing strategies, including social media campaigns and posters, reaching over 500 students, boosting participation and attendance by 15%

Skills & Interests

Languages: English, Urdu, Hindi

Programming & Development: Python, Dart (Flutter), HTML5, CSS3, Bootstrap, R Programming

Databases: MySQL, DBMS

Machine Learning & Data Science: XGBoost, KMeans, KNN, Logistic Regression, SVD, Feature Engineering, Data Preprocessing, Pandas

Frameworks & Tools: Flutter, Node.js, Figma, Git,

Specialized Knowledge: Recommendation Systems, Natural Language Processing (NLP), Collaborative & Content-Based Filtering, Model Optimization